

S/N 10/599, 062

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NEWS 2	DEC 01	ChemPort single article sales feature unavailable	
NEWS 3	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN	
NEWS 4	JUN 26	NUTRACEUT and PHARMAML no longer updated	
NEWS 5	JUN 29	IMSCOPROFILE now reloaded monthly	
NEWS 6	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields	
NEWS 7	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields	
NEWS 8	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data	
NEWS 9	JUL 27	CA/CAplus enhanced with new citing references	
NEWS 10	JUL 16	GBFULL adds patent backfile data to 1855	
NEWS 11	JUL 21	USGENE adds bibliographic and sequence information	
NEWS 12	JUL 28	EPFULL adds first-page images and applicant-cited references	
NEWS 13	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data	
NEWS 14	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes	
NEWS 15	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field	
NEWS 16	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced	
NEWS 17	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents	
NEWS 18	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY	

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S/N 10/599, 062

FILE 'HOME' ENTERED AT 12:17:28 ON 09 SEP 2009

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=> set plurals on perm
SET COMMAND COMPLETED

=> file uspatall caplus japi o

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FILE 'USPATFULL' ENTERED AT 12:18:07 ON 09 SEP 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 12:18:07 ON 09 SEP 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:18:07 ON 09 SEP 2009
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FILE 'JAPIO' ENTERED AT 12:18:07 ON 09 SEP 2009
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=> e murray peter/au

E1	1	MURRAY	PERKAL/AU
E2	1	MURRAY	PETA/AU
E3	44	-->	MURRAY PETER/AU
E4	18	MURRAY	PETER B/AU
E5	10	MURRAY	PETER D/AU
E6	12	MURRAY	PETER E/AU
E7	4	MURRAY	PETER F/AU
E8	2	MURRAY	PETER G/AU
E9	2	MURRAY	PETER GEORGE/AU
E10	2	MURRAY	PETER GRAHAME/AU
E11	4	MURRAY	PETER H/AU
E12	3	MURRAY	PETER HUGH/AU

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=> e murray george/au
E1          1      MURRAY GEOFFREY CADE/AU
E2          9      MURRAY GEOFFREY NEIL/AU
E3          8  --> MURRAY GEORGE/AU
E4          1      MURRAY GEORGE B/AU
E5          1      MURRAY GEORGE BARNARD/AU
E6          14     MURRAY GEORGE C/AU
E7          8      MURRAY GEORGE C JR/AU
E8          1      MURRAY GEORGE D/AU
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S/N 10/599,062

E9 5 MURRAY GEORGE E/AU
E10 2 MURRAY GEORGE E R/AU
E11 3 MURRAY GEORGE EDWIN/AU
E12 4 MURRAY GEORGE G/AU

=> s e3
L1 8 "MURRAY GEORGE"/AU

=> d 11 1-8 ibib abs

L1 ANSWER 1 OF 8 USPATOLD on STN
ACCESSION NUMBER: 1888:1360 USPATOLD
TITLE: FERTILIZING COMPOSITION.
INVENTOR(S): GEOBGE H. MUBBAY, OF CHICAGO, ILLINOIS.

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 377084	A	18880131
APPLICATION INFO.:			18870312
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
LINE COUNT:	65		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1006331 CAPLUS
DOCUMENT NUMBER: 144:47449
TITLE: Molecularly Imprinted Ion-Exchange Resin for Fe³⁺
AUTHOR(S): Owens, George; Southard, Glen; Houten, Kelly;
Murray, George
CORPORATE SOURCE: Technical Services Department, Johns Hopkins
University, Applied Physics Laboratory, Laurel, MD,
USA
SOURCE: Separation Science and Technology (2005), 40(11),
2205-2211
CODEN: SSTEDE; ISSN: 0149-6395

PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Ion exchange resins selective for the sequestration of Fe³⁺ from aqueous solns. containing citrate were prepared by the mol. imprinting technique. Sorption characteristics of imprinted resins prepared with high (85 mol%) and low (3 mol%) amts. of covalent crosslinking were examined Expts. to determine loading capacity and selectivity, relative to several metal ions of physiol. significance, were performed. The Fe³⁺ capacity of the highly cross-linked resin was larger but the selectivity was lower.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:229228 CAPLUS
TITLE: Synthetic and spectroscopic characterization of
molecularly imprinted polymer phosphonate sensors
AUTHOR(S): Murray, George; Southard, Glen E.
CORPORATE SOURCE: Technical Services, Johns Hopkins University, Laurel,
MD, 20723-6099, USA
SOURCE: Abstracts of Papers, 227th ACS National Meeting,

Anaheim, CA, United States, March 28-April 1, 2004
(2004), POLY-593. American Chemical Society:
Washington, D. C.
CODEN: 69FGKM

DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English

AB Mol. imprinting is a useful technique for making a chemical selective binding site. The method involves building a synthetic polymeric scaffold of mol. compliments containing the target mol. with subsequent removal of the target to leave a cavity with a structural "memory" of the target. Incorporation of a reporting group as part of the imprinting site would generate a sensor from the molecularly imprinted polymer. Hence, we have developed a sensor based on lanthanide luminescence for sensing compds. that contain phosphonate moieties. The chemical modification of sensitizing ligands, the challenges involved in their incorporation into molecularly imprinted polymers, their spectroscopic characterization and selectivity will be discussed.

L1 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:268156 CAPLUS

DOCUMENT NUMBER: 137:144396

TITLE: Atmospheric concentrations of ammonia and ammonium at an agricultural site in the southeast United States

AUTHOR(S): Robarge, Wayne P.; Walker, John T.; McCulloch, Ronald B.; Murray, George

CORPORATE SOURCE: Department of Soil Science, North Carolina State University, Raleigh, NC, 27695, USA

SOURCE: Atmospheric Environment (2002), 36(10), 1661-1674
CODEN: AENVEQ; ISSN: 1352-2310

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In this study, we present \approx 1 yr (Oct. 1998-Sept. 1999) of 12-h mean NH₃, NH₄⁺, HCl, Cl⁻, NO₃⁻, HNO₃, HONO, SO₄²⁻, and SO₂ concns. measured at an agricultural site in North Carolina's Coastal Plain region. Mean gas concns. were 0.46, 1.21, 0.54, 5.55, and 4.15 μ g m⁻³ for HCl, HNO₃, HONO, NH₃, and SO₂, resp. Mean aerosol concns. were 1.44, 1.23, 0.08, and 3.37 μ g m⁻³ for NH₄⁺, NO₃⁻, Cl⁻, and SO₄²⁻, resp. NH₃, NH₄⁺, HNO₃, and SO₄²⁻ exhibit higher concns. during the summer, while higher SO₂ concns. occur during winter. A meteorol.-based multivariate regression model using temperature, wind speed, and wind direction explains 76% of the variation in 12-h mean NH₃ concns. (n = 601). NH₃ concentration increases exponentially with temperature, which explains the majority of variation (54%) in 12-h mean NH₃ concns. Dependence of NH₃ concentration on wind direction suggests a local source influence. NH₃ accounts for >70% of NH_x (NH_x = NH₃ + NH₄⁺) during all seasons. Ammonium nitrate and sulfate aerosol formation does not appear to be NH₃ limited. Sulfate is primarily associated ammonium sulfate, rather than bisulfate, except during the winter when the ratio of NO₃⁻-NH₄⁺ is \approx 0.66. The annual average NO₃⁻-NH₄⁺ ratio is \approx 0.25.

OS.CITING REF COUNT: 22 THERE ARE 22 CAPLUS RECORDS THAT CITE THIS RECORD (22 CITINGS)

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:795299 CAPLUS

TITLE: Molecularly imprinted permeable membrane for uranyl ion.

AUTHOR(S): Kimaro, Anael; Kelly, Lisa; Murray, George

CORPORATE SOURCE: Department of Chemistry & Biochemistry, University of Maryland, Baltimore, MD, 21250, USA
SOURCE: Abstracts of Papers, 220th ACS National Meeting, Washington, DC, United States, August 20-24, 2000 (2000), IEC-050. American Chemical Society: Washington, D. C.
CODEN: 69FZC3
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English

AB An ion permeable membrane selective for uranyl ion has been prepared by employing the mol. imprinting technique. Uranyl vinylbenzoate complex when copolymerd. with styrene in the presence of crosslinkers, porogens and plasticizers was formed as a thin membrane. Removal of the uranyl ion template by washing with acid created cavities suitable for the selective complexation of uranyl ions. A linear polymeric porogen was used to create channels in the polymer allowing permeation of uranyl ion across the membrane. The imprinted membrane exhibits good loading capacity so that transport of uranyl ions through the membrane is facilitated. The polymer membrane provides selective permeation of uranyl ions in the presence of multiple interferences. Quiescent solution diffusion has been measured with fluxes up to 0.82 nmol/cm² h for uranyl ion transport. The phys. stability of the membrane qualifies it for practical application in separation of industrial wastes.

L1 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:642543 CAPLUS
DOCUMENT NUMBER: 127:310833
ORIGINAL REFERENCE NO.: 127:60721a,60724a
TITLE: Chemical slippers
AUTHOR(S): Murray, George; Fish, Richard H.
CORPORATE SOURCE: University of Maryland, Baltimore, USA
SOURCE: New Scientist (1997), 155(2099), 34-37
CODEN: NWSCAL; ISSN: 0262-4079
PUBLISHER: IPC Magazines Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Tiny impressions of mols. can remove toxic metals from water, detect muscle amts. of nerve gas in the air or a particular hormone in the blood.
OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)

L1 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1951:24013 CAPLUS
DOCUMENT NUMBER: 45:24013
ORIGINAL REFERENCE NO.: 45:4183a
TITLE: Rebuilding Lepanto-The Far East's largest producer of copper
AUTHOR(S): Murray, George; Bein, Hugh H.
CORPORATE SOURCE: Lepanto Consolidated Mining Co., Mankayan, P.I.
SOURCE: Engineering and Mining Journal (1951), 152(No. 3), 72-5
CODEN: ENMJAK; ISSN: 0095-8948
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB This Philippine enterprise has been rehabilitated and is milling 1000 tons per day of 4-5% Cu in a modern plant. The geology of the area, and 3 stopping methods are outlined.

L1 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1906:139996 CAPLUS

DOCUMENT NUMBER: 0:139996
TITLE: FERTILIZING COMPOSITION
INVENTOR(S): Murray, George
PATENT ASSIGNEE(S): USA
SOURCE: U.S.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 377084 A		18880131	US	18870312

AB To all whom it may concern: Be it known that I, GEORGE H. MURRAY, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Fertilizing Compounds, which are fully set forth in the following specification. The purpose of this invention is to utilize distillery-slop and animal excrement in the manufacture of a fertilizer, which shall be handled in the form of a dry powder or granular mass in convenient form for application in gardening and farming. I find the two substances-animal excrement from grain-fed animals and distillery-slop-to be substantially equivalents for this purpose, since both are the undigested and indigestible residuum of the grain. The principal feature of this invention consists in the use of tan-bark-that is to say, bark which has been employed for the purpose of tanning leather-as the principal substance for absorbing the elements of vegetable nutrition and stimulus from the other substances which enter into the compound, said tan-bark being the principal vehicle for carrying the other substances, although doubtless itself containing some elements adapted to stimulate the growth of the plants to which the compound is applied. I employ as the elements of my fertilizer-besides distillery-slop or animal excrement and tan-bark-salt, slaked lime, and potash.

=> e murray george/in
E1 1 MURRAY GEOFFREY CADE/IN
E2 9 MURRAY GEOFFREY NEIL/IN
E3 2 --> MURRAY GEORGE/IN
E4 1 MURRAY GEORGE BARNARD/IN
E5 10 MURRAY GEORGE C/IN
E6 1 MURRAY GEORGE D/IN
E7 4 MURRAY GEORGE E/IN
E8 2 MURRAY GEORGE E R/IN
E9 3 MURRAY GEORGE EDWIN/IN
E10 4 MURRAY GEORGE G/IN
E11 7 MURRAY GEORGE H/IN
E12 58 MURRAY GEORGE M/IN

=> s e12
L2 58 "MURRAY GEORGE M"/IN

=> s 12 and chain(1a)transfer
L3 7 L2 AND CHAIN(1A) TRANSFER

=> d 13 1-7 ibib abs

L3 ANSWER 1 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2009:219771 USPATFULL
TITLE: Molecularly Imprinted Polymer Sensor Device

INVENTOR(S): Murray, George M., Tullahoma, TN, UNITED STATES
Mason, Andrew F., Silver Spring, MD, UNITED STATES
Ott, JR., Edward W., Dundalk, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20090197297	A1	20090806
APPLICATION INFO.:	US 2009-360372	A1	20090127 (12)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2008-23901P	20080128 (61)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	788	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A molecularly imprinted polymer sensor device for detecting the presence of a taggant molecular structure in a fluid is disclosed. The molecularly imprinted polymer sensor device comprises a molecularly imprinted crosslinked polymer having a crosslinked core and a plurality of polymer arms attached to the core, wherein the core has molecular sized cavities adapted to selectively receive and bind displacement molecules having the taggant molecular structure and a colorimetric indicator, said displacement molecule being selectively removed from the molecularly imprinted crosslinked polymer and replaced with the taggant molecular structure upon exposure to the fluid containing the taggant molecular structure therein, thereby indicating the presence of the taggant molecular structure in the fluid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2008:302393 USPATFULL
TITLE: Molecularly Imprinted Polymer Ion Exchange Resins
INVENTOR(S): Murray, George M., Columbia, MD, UNITED STATES
Van Houten, Kelly A., West Friendship, MD, UNITED STATES
Southard, Glen E., Park City, UT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080264868	A1	20081030
APPLICATION INFO.:	US 2006-89027	A1	20060811 (12)
	WO 2006-US31346		20060811
			20080402 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-736376P	20051114 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA,	

OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD,
MAIL STOP 7-156, LAUREL, MD, 20723-6099, US

NUMBER OF CLAIMS:

35

EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1000

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A molecularly imprinted polymer ion exchange resin for selectively removing one or more inorganic ions in a liquid medium is disclosed and described. The exchange resin can include a bead having a porous structure and comprising a cross-linked molecularly imprinted polymer having molecular sized cavities adapted to selectively receive and bind a specific inorganic ion in a liquid medium. A process for preparing a molecularly imprinted polymer ion exchange resin can include (a) polymerizing a polymerizable mixture in the presence of an inorganic ion imprinting complex to form a bead, said inorganic ion imprinting complex including a ligand and an inorganic ion; and (b) removing the inorganic ions from the bead to form the molecularly imprinted polymer ion exchange resin, the bead having a porous structure and comprising a cross-linked molecularly imprinted polymer having molecular sized cavities adapted to selectively receive and bind a specific inorganic ion in a liquid medium.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2008:65026 USPATFULL

TITLE: Authentication Of Products Using Molecularly Imprinted Polymers

INVENTOR(S): Charles, Harry K., Laurel, MD, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080056940	A1	20080306
APPLICATION INFO.:	US 2004-575055	A1	20041004 (10)
	WO 2004-US32576		20041004
			20070413 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-509284P	20031007 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Francis A Cooch Deputy General Counsel (Patents), The Johns Hopkins University Applied Physics Labor, 11100 Johns Hopkins Road, Mail Stop 7-156, Laurel, MD, 20723-6099, US	

NUMBER OF CLAIMS: 31

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 991

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for identifying a product includes providing a solid body (10) fabricated from at least a molecularly imprinted polymer having molecular sized cavities (12) adapted to selectively receive and bind molecules (50) having a specific taggant molecular structure (51), the molecular sized cavities (12) disposed on a portion of an exterior surface (11) of the body (10), and applying to the surface of the body a

composition containing indicator molecules (50) having a taggant moiety (51) at one end and a marking function group (53) tethered to the taggant moiety (51) by a molecular chain the taggant moieties (51) engaging and binding to the molecular sized cavities (12) so as to mark the portion of the surface (11) of the body (10) with the indicator molecules (50) bound thereto, the marking functional groups (53) rendering the marked portion of the surface (11) perceptible with or without detection instrumentation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2007:225646 USPATFULL
TITLE: Processable molecularly imprinted polymers
INVENTOR(S): Southard, Glen E., Park City, UT, UNITED STATES
 Murray, George M., Columbia, MD, UNITED
 STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070197746	A1	20070823
APPLICATION INFO.:	US 2004-599062	A1	20041004 (10)
	WO 2004-US32575		20041004
			20060919 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-560668P	20040408 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	1353	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex having the formula L?3#191M wherein L is a β -diketone ligand containing a chain transfer moiety and L?3#191 can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and cross-linking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:950729 CAPLUS
DOCUMENT NUMBER: 151:213643
TITLE: Molecularly imprinted polymer and colorimetric indicator sensor device useful for testing presence of drugs or hormones in body fluids or beverages
INVENTOR(S): Murray, George M.; Mason, Andrew F.; Ott, Jr., Edward W.

PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 13pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090197297	A1	20090806	US 2009-360372	20090127
PRIORITY APPLN. INFO.:			US 2008-23901P	P 20080128

AB A molecularly imprinted polymer sensor device for detecting the presence of a taggant mol. structure in a fluid is disclosed. The molecularly imprinted polymer sensor device comprises a molecularly imprinted crosslinked polymer having a crosslinked core and a plurality of polymer arms attached to the core, wherein the core has mol. sized cavities adapted to selectively receive and bind displacement mols. having the taggant mol. structure and a colorimetric indicator, said displacement mol. being selectively removed from the molecularly imprinted crosslinked polymer and replaced with the taggant mol. structure upon exposure to the fluid containing the taggant mol. structure therein, thereby indicating the presence of the taggant mol. structure in the fluid. The sensor is a capillary tube coated with the molecularly imprinted polymer. The sensor is useful for testing presence of date rape drugs or hormones in body fluids or beverages.

L3 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:198501 CAPLUS
 DOCUMENT NUMBER: 144:233609
 TITLE: Authenticatable products using molecularly imprinted polymers
 INVENTOR(S): Charles, Harry K., Jr.; Murray, George M.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005038734	A2	20050428	WO 2004-US32576	20041004
WO 2005038734	A3	20051208		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20080056940	A1	20080306	US 2007-575055	20070413
PRIORITY APPLN. INFO.:			US 2003-509284P	P 20031007
			WO 2004-US32576	W 20041004

AB Authenticatable products are manufactured by (a) complexing a lanthanide

complex of a β -ketone containing a chain-transfer moiety with a target analyte and (b) polymerizing the adduct with a monomer and a crosslinking agent. A typical product was manufactured by complexing 1-[4-(4,4,4-trifluoro-1,3-dioxo-1-butyl)-1-naphthyl]ethyl dithiobenzoate with EuCl₃·6H₂O, radically polymerizing 1-but-3-enyl-4-vinylbenzene in the presence of the resulting complex and di-Me hydrogen phosphate (analyte), polymerizing styrene in the presence of the 2nd complex, and crosslinking.

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1168877 CAPLUS

DOCUMENT NUMBER: 143:451780

TITLE: Processable molecularly imprinted polymers

INVENTOR(S): Southard, Glen E.; Murray, George M.

PATENT ASSIGNEE(S): The Johns Hopkins University, USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005103655	A1	20051103	WO 2004-US32575	20041004
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004318862	A1	20051103	AU 2004-318862	20041004
CA 2560384	A1	20051103	CA 2004-2560384	20041004
EP 1733211	A1	20061220	EP 2004-821372	20041004
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1969181	A	20070523	CN 2004-80042696	20041004
JP 2007532715	T	20071115	JP 2007-507297	20041004
US 20070197746	A1	20070823	US 2006-599062	20060919
PRIORITY APPLN. INFO.:			US 2004-560668P	P 20040408
			WO 2004-US32575	W 20041004

OTHER SOURCE(S): MARPAT 143:451780

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex with the following formula L3M wherein L is a β -diketone ligand containing a chain transfer moiety and L3M can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and crosslinking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

S/N 10/599,062

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s (molecular?(1a)imprint?)(3a)(polymer# or copolymer#)
L4 4627 (MOLECULAR?(1A) IMPRINT?)(3A)(POLYMER# OR COPOLYMER#)

=> s (chain(1a)transfer)(8a)(ligand# or moiety? or group# or function?)
L5 6086 (CHAIN(1A) TRANSFER)(8A)(LIGAND# OR MOIET? OR GROUP# OR FUNCTION
?)

=> s 14 and 15
L6 9 L4 AND L5

=> d 16 1-9 ibib abs

L6 ANSWER 1 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2009:219771 USPATFULL
TITLE: Molecularly Imprinted
Polymer Sensor Device
INVENTOR(S): Murray, George M., Tullahoma, TN, UNITED STATES
Mason, Andrew F., Silver Spring, MD, UNITED STATES
Ott, JR., Edward W., Dundalk, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20090197297	A1	20090806
APPLICATION INFO.:	US 2009-360372	A1	20090127 (12)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2008-23901P	20080128 (61)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	788	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A molecularly imprinted polymer sensor
device for detecting the presence of a taggant molecular structure in a
fluid is disclosed. The molecularly imprinted
polymer sensor device comprises a molecularly
imprinted crosslinked polymer having a crosslinked
core and a plurality of polymer arms attached to the core, wherein the
core has molecular sized cavities adapted to selectively receive and
bind displacement molecules having the taggant molecular structure and a
colorimetric indicator, said displacement molecule being selectively
removed from the molecularly imprinted crosslinked
polymer and replaced with the taggant molecular structure upon
exposure to the fluid containing the taggant molecular structure
therein, thereby indicating the presence of the taggant molecular
structure in the fluid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2008:302393 USPATFULL
TITLE: Molecularly Imprinted
Polymer Ion Exchange Resins
INVENTOR(S): Murray, George M., Columbia, MD, UNITED STATES
Van Houten, Kelly A., West Friendship, MD, UNITED
STATES
Southard, Glen E., Park City, UT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080264868	A1	20081030
APPLICATION INFO.:	US 2006-89027	A1	20060811 (12)
	WO 2006-US31346		20060811
			20080402 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-736376P	20051114 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	

NUMBER OF CLAIMS: 35

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 1000

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A molecularly imprinted polymer ion exchange resin for selectively removing one or more inorganic ions in a liquid medium is disclosed and described. The exchange resin can include a bead having a porous structure and comprising a cross-linked molecularly imprinted polymer having molecular sized cavities adapted to selectively receive and bind a specific inorganic ion in a liquid medium. A process for preparing a molecularly imprinted polymer ion exchange resin can include (a) polymerizing a polymerizable mixture in the presence of an inorganic ion imprinting complex to form a bead, said inorganic ion imprinting complex including a ligand and an inorganic ion; and (b) removing the inorganic ions from the bead to form the molecularly imprinted polymer ion exchange resin, the bead having a porous structure and comprising a cross-linked molecularly imprinted polymer having molecular sized cavities adapted to selectively receive and bind a specific inorganic ion in a liquid medium.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2008:65026 USPATFULL
TITLE: Authentication Of Products Using Molecularly
Imprinted Polymers
INVENTOR(S): Charles, Harry K., Laurel, MD, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080056940	A1	20080306

APPLICATION INFO.: US 2004-575055 A1 20041004 (10)
WO 2004-US32576 20041004
20070413 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-509284P	20031007 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Francis A Cooch Deputy General Counsel (Patents), The Johns Hopkins University Applied Physics Labor, 11100 Johns Hopkins Road, Mail Stop 7-156, Laurel, MD, 20723-6099, US	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	991	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for identifying a product includes providing a solid body (10) fabricated from at least a molecularly imprinted polymer having molecular sized cavities (12) adapted to selectively receive and bind molecules (50) having a specific taggant molecular structure (51), the molecular sized cavities (12) disposed on a portion of an exterior surface (11) of the body (10), and applying to the surface of the body a composition containing indicator molecules (50) having a taggant moiety (51) at one end and a marking function group (53) tethered to the taggant moiety (51) by a molecular chain the taggant moieties (51) engaging and binding to the molecular sized cavities (12) so as to mark the portion of the surface (11) of the body (10) with the indicator molecules (50) bound thereto, the marking functional groups (53) rendering the marked portion of the surface (11) perceptible with or without detection instrumentation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2007:225646 USPATFULL
TITLE: Processable molecularly imprinted polymers
INVENTOR(S): Southard, Glen E., Park City, UT, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070197746	A1	20070823
APPLICATION INFO.:	US 2004-599062	A1	20041004 (10)
	WO 2004-US32575		20041004
			20060919 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-560668P	20040408 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	

LINE COUNT: 1353

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex having the formula L?3#191M wherein L is a β -diketone ligand containing a chain transfer moiety and L?3#191 can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and cross-linking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:784589 CAPLUS

TITLE: Grafting of molecularly imprinted polymers from the surface of silica gel particles via reversible addition-fragmentation chain transfer polymerization: A selective sorbent for theophylline

AUTHOR(S): Li, Yong; Zhou, Wen-Hui; Yang, Huang-Hao; Wang, Xiao-Ru

CORPORATE SOURCE: College of Chemistry and Chemical Engineering, Ocean University of China, Qingdao, 266003, Peop. Rep. China

SOURCE: Talanta (2009), 79(2), 141-145

CODEN: TLNTA2; ISSN: 0039-9140

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Molecularly imprinted polymers (MIPs) were grafted successfully from the surface of silica gel particles via surface initiated reversible addition-fragmentation chain transfer (RAFT) polymerization using RAFT agent functionalized silica gel as the chain transfer agent. The intrinsic characteristics of the controlled/living polymerization mechanism of RAFT allowed for the effective control of the grafting process. Thus the grafting copolymer of methacrylic acid and divinyl benzene in the presence of template theophylline led to thin MIP film coating silica gel (MIP-Silica). The thickness of MIP film prepared in this study is about 1.98 nm, which was calculated from the nitrogen sorption anal. results. Measured binding kinetics for theophylline to the MIP-Silica and MIPs prepared by conventional bulk polymerization demonstrated that MIP-Silica had improved mass-transfer properties. In addition, the theophylline-imprinted MIP-Silica was used as the sorbent in solid-phase extraction to determine theophylline in blood

serum with satisfactory recovery higher than 90%. Nonspecific adsorption of interfering compds. can be eliminated by a simple elution with acetonitrile, without sacrificing the selective binding of theophylline.

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:164511 CAPLUS

DOCUMENT NUMBER: 150:423598

TITLE: Bifunctional superparamagnetic surface

AUTHOR(S): Lu, Chun-Hua; Wang, Yun; Li, Yong; Yang, Huang-Hao; Chen, Xi; Wang, Xiao-Ru

CORPORATE SOURCE: The Key Lab of Analysis and Detection Technology for Food Safety of the MOE, College of Chemistry and Chemical Engineering, Fuzhou University, Fuzhou, Peop. Rep. China

SOURCE: Journal of Materials Chemistry (2009), 19(8), 1077-1079

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Superparamagnetic surface molecularly imprinted polymer core-shell nanoparticles were prepared via surface atom transfer radical polymerization (ATRP) using the ATRP agent functionalized Fe₃O₄ support as the chain transfer agent.

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:635332 CAPLUS
DOCUMENT NUMBER: 147:182615

TITLE: Surface-Imprinted Core-Shell Nanoparticles for Sorbent Assays

AUTHOR(S): Lu, Chun-Hua; Zhou, Wen-Hui; Han, Bing; Yang, Huang-Hao; Chen, Xi; Wang, Xiao-Ru

CORPORATE SOURCE: The Key Lab of Analysis and Detection Technology for Food Safety of the MOE, College of Chemistry and Chemical Engineering, Fuzhou University, Fuzhou, 350002, Peop. Rep. China

SOURCE: Analytical Chemistry (Washington, DC, United States) (2007), 79(14), 5457-5461

CODEN: ANCHAM; ISSN: 0003-2700

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB In this paper, we present a general protocol for the making of surface-imprinted core-shell nanoparticles via surface reversible addition-fragmentation chain-transfer (RAFT) polymerization using RAFT agent functionalized model silica nanoparticles as the chain-transfer agent. In this protocol, trichloro(4-chloromethylphenyl)silane was immobilized on the surface of SiO₂ nanoparticles, forming chloromethylphenyl functionalized silica (silica-Cl). RAFT agent functionalized silica was subsequently produced by substitute reaction of silica-Cl with PhC(S)SMgBr. The grafting copolymer. of 4-vinylpyridine and ethylene glycol dimethacrylate using surface RAFT polymerization and in the presence of 2,4-dichlorophenoxyacetic acid as the template led to the formation of surface-imprinted core-shell nanoparticles. The resulting surface-imprinted core-shell nanoparticles bind the original template 2,4-D with an appreciable selectivity over structurally related compds. The potential use of the surface-imprinted core-shell nanoparticles as the recognition element in the competitive fluorescent binding assay for 2,4-D was also demonstrated.

OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:198501 CAPLUS
 DOCUMENT NUMBER: 144:233609
 TITLE: Authenticatable products using molecularly imprinted polymers
 INVENTOR(S): Charles, Harry K., Jr.; Murray, George M.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005038734	A2	20050428	WO 2004-US32576	20041004
WO 2005038734	A3	20051208		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20080056940	A1	20080306	US 2007-575055	20070413
PRIORITY APPLN. INFO.:			US 2003-509284P	P 20031007
			WO 2004-US32576	W 20041004

AB Authenticatable products are manufactured by (a) complexing a lanthanide complex of a β -ketone containing a chain-transfer moiety with a target analyte and (b) polymerizing the adduct with a monomer and a crosslinking agent. A typical product was manufactured by complexing 1-[4-(4,4,4-trifluoro-1,3-dioxo-1-butyl)-1-naphthyl]ethyl dithiobenzoate with EuCl₃.6H₂O, radically polymerizing 1-but-3-enyl-4-vinylbenzene in the presence of the resulting complex and di-Me hydrogen phosphate (analyte), polymerizing styrene in the presence of the 2nd complex, and crosslinking.

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
 (3 CITINGS)
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:1168877 CAPLUS
 DOCUMENT NUMBER: 143:451780
 TITLE: Processable molecularly imprinted polymers
 INVENTOR(S): Southard, Glen E.; Murray, George M.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005103655	A1	20051103	WO 2004-US32575	20041004
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004318862	A1	20051103	AU 2004-318862	20041004
CA 2560384	A1	20051103	CA 2004-2560384	20041004
EP 1733211	A1	20061220	EP 2004-821372	20041004
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1969181	A	20070523	CN 2004-80042696	20041004
JP 2007532715	T	20071115	JP 2007-507297	20041004
US 20070197746	A1	20070823	US 2006-599062	20060919
PRIORITY APPLN. INFO.:			US 2004-560668P	P 20040408
			WO 2004-US32575	W 20041004

OTHER SOURCE(S): MARPAT 143:451780

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex with the following formula L3M wherein L is a β -diketone ligand containing a chain transfer moiety and L3M can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and crosslinking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s raft(2s)((complex### or chelat###)(6a)(lanthan? or europium or cerium or neodymium or ytterbium or lutetium))

L7 9 RAFT(2S)((COMPLEX## OR CHELAT###)(6A)(LANTHAN? OR EUROPIUM OR CERIUM OR NEODYMIUM OR YTTERBIUM OR LUTETIUM))

=> d 17 1-9 ibib abs

L7 ANSWER 1 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2008:65026 USPATFULL

TITLE: Authentication Of Products Using Molecularly Imprinted Polymers

INVENTOR(S): Charles, Harry K., Laurel, MD, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION: US 20080056940 A1 20080306
APPLICATION INFO.: US 2004-575055 A1 20041004 (10)
WO 2004-US32576 20041004
20070413 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-509284P	20031007 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Francis A Cooch Deputy General Counsel (Patents), The Johns Hopkins University Applied Physics Labor, 11100 Johns Hopkins Road, Mail Stop 7-156, Laurel, MD, 20723-6099, US	
NUMBER OF CLAIMS:	31	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	2 Drawing Page(s)	
LINE COUNT:	991	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for identifying a product includes providing a solid body (10) fabricated from at least a molecularly imprinted polymer having molecular sized cavities (12) adapted to selectively receive and bind molecules (50) having a specific taggant molecular structure (51), the molecular sized cavities (12) disposed on a portion of an exterior surface (11) of the body (10), and applying to the surface of the body a composition containing indicator molecules (50) having a taggant moiety (51) at one end and a marking function group (53) tethered to the taggant moiety (51) by a molecular chain the taggant moieties (51) engaging and binding to the molecular sized cavities (12) so as to mark the portion of the surface (11) of the body (10) with the indicator molecules (50) bound thereto, the marking functional groups (53) rendering the marked portion of the surface (11) perceptible with or without detection instrumentation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 9 USPATFULL on STN
ACCESSION NUMBER: 2007:225646 USPATFULL
TITLE: Processable molecularly imprinted polymers
INVENTOR(S): Southard, Glen E., Park City, UT, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070197746	A1	20070823
APPLICATION INFO.:	US 2004-599062	A1	20041004 (10)
	WO 2004-US32575		20041004
			20060919 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-560668P	20040408 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	
NUMBER OF CLAIMS:	45	
EXEMPLARY CLAIM:	1	

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1353

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex having the formula L?3#191M wherein L is a β -diketone ligand containing a chain transfer moiety and L?3#191 can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and cross-linking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:287657 CAPLUS

TITLE: A combination of RAFT and "Click" chemistry techniques to synthesize polymeric europium complexes with selective fluorescence emission

AUTHOR(S): Li, Daoguang; Zhu, Jian; Cheng, Zhenping; Zhang, Wei; Zhu, Xiulin

CORPORATE SOURCE: Key Laboratory of Organic Synthesis of Jiangsu Province, College of Chemistry, Chemical Engineering and Material Science of Soochow (Suzhou) University, Suzhou, 215006, Peop. Rep. China

SOURCE: Reactive & Functional Polymers (2009), 69(4), 240-245
CODEN: RFPOF6; ISSN: 1381-5148

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Cu-catalyzed 1,3-dipolar cycloaddn. reactions were utilized to access a novel monomer, 2-methyl-acrylic acid 1-(7-diethylamino-2-oxo-2H-chromen-3-yl)-1H-[1,2,3] triazol-4-ylmethyl ester (CTEMA), with mild reaction conditions and high yield. The RAFT copolymn. of CTEMA with Me methacrylate (MMA) showed the features of "living"/controlled radical polymerization Polymeric europium complexes were successfully prepared by the reaction between copolymers and pre-complexed europium . The weight percent of the Eu(III) ion in the polymer (Eu%) reached up to 29.5%. The polymeric europium complexes displayed different fluorescent profiles using different excitation wavelengths.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:929654 CAPLUS

DOCUMENT NUMBER: 149:379090

TITLE: Synthesis and magnetic properties of comb-like copolymeric complexes based on thiazole ring and ionic liquid

AUTHOR(S): Yang, Jun; Sun, Weilin; Lin, Weihong; Shen, Zhiqian

CORPORATE SOURCE: Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, Peop. Rep. China

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (2008), 46(15), 5123-5132

CODEN: JPACEC; ISSN: 0887-624X

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two comb-like copolymers (BIMT and PMB) composed of N-2-thiazolylmethacrylamide (NTMA) and 2-(1-butylimidazolium-3-yl) Et methacrylate tetrafluoroborate (BIMA) were prepared by free radical polymerization

and reversible addition-fragmentation chain transfer (RAFT) polymerization. The monomer conversion was confirmed by FTIR spectra and ¹H NMR spectra. The metal (Ni²⁺, Nd³⁺) complexes of these two copolymers were prepared, and the magnetic properties of the complexes were studied. The coordinated complexes display three possible chelating structures, based on nitrogen donor and oxygen donor ligands and the kinds of the metal ions. The bimetallic complexes (BIMT-Nd-Ni and PMB-Nd-Ni) were synthesized by using the different coordination sites of the polymers. The magnetic properties of the complexes show different structures arising from different preparation routes; the kind and content of metal ions and the state of the complexes can affect exchange interactions between metal ions and induce magnetic phenomena.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:756818 CAPLUS

DOCUMENT NUMBER: 149:268362

TITLE: Synthesis and characterization of novel copolymer containing pyridylazo-2-naphthoxyl group via reversible addition-fragmentation chain transfer (RAFT) polymerization

AUTHOR(S): Zhou, Di; Zhu, Xiulin; Zhu, Jian; Cheng, Zhenping

CORPORATE SOURCE: Key Laboratory of Organic Synthesis of Jiangsu Province, School of Chemistry and Chemical Engineering, Soochow (Suzhou) University, Suzhou, 215006, Peop. Rep. China

SOURCE: Polymer (2008), 49(13-14), 3048-3053

CODEN: POLMAG; ISSN: 0032-3861

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A novel monomer containing pyridylazo-2-naphthoxyl group, 1-(1-(4-vinylbenzyloxy)naphthalen-2-yl)-2-(pyridin-2-yl)diazene (VBNPA), was successfully synthesized and copolymerized with styrene (St) in N,N-DMF (DMF) via reversible addition-fragmentation chain transfer (RAFT)

polymerization using 2-cyanoprop-2-yl-1-dithionaphthalate (CPDN) as RAFT agent. The polymerization behavior exhibited "living"/controlled characters. The obtained copolymer, poly(St-co-VBNPA), with pre-determinable mol. weight and narrow mol. weight distribution can be used as a carrier in metal ion detection and anal. via pre-concentration technique. The copolymer-metal ion (copper (Cu)

and

european (Eu)) complexes were prepared and characterized.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:151540 CAPLUS

DOCUMENT NUMBER: 146:402457
TITLE: Soluble and Processable Phosphonate Sensing Star
Molecularly Imprinted Polymers
AUTHOR(S): Southard, Glen E.; Van Houten, Kelly A.; Murray,
George M.
CORPORATE SOURCE: Applied Physics Laboratory, Johns Hopkins University,
Laurel, MD, 20723-6099, USA
SOURCE: Macromolecules (2007), 40(5), 1395-1400
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Soluble molecularly imprinted polymers (MIPs) were prepared by reversible
addition
fragmentation chain transfer (RAFT) polymerization followed by
ring-closing metathesis (RCM). The polymerization was done in the presence of
a template to generate a processable star MIP. The core of the star polymer
was a dithiobenzoate-substituted tris(β -diketonate) europium
(III) complex. The tris(β -diketonate) europium
(III) complex served as a polymerization substrate for the three-armed
RAFT-mediated star polymer and as a luminescent binding site for
dicrotophos, an organophosphonate pesticide. The star arms were AB block
copolymers. Block A was either 1-but-3-enyl-4-vinylbenzene or a mixture of
1-but-3-enyl-4-vinylbenzene and styrene. Block B was styrene or Me
methacrylate. The but-3-enyls of block A were reacted by RCM with a
second generation Grubbs catalyst to give an intramolecularly cross-linked
core. The intramolecularly cross-linked MIP was soluble in common organic
solvents. The 30% cross-linked soluble and processable star MIP was applied
to the determination of dicrotophos with sub-ppb level detection limits.
OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS
RECORD (10 CITINGS)
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1326154 CAPLUS
DOCUMENT NUMBER: 146:219594
TITLE: Luminescent sensing of organophosphates using
europium(III) containing imprinted polymers prepared
by RAFT polymerization
AUTHOR(S): Southard, Glen E.; Van Houten, Kelly A.; Ott, Edward
W.; Murray, George M.
CORPORATE SOURCE: The Johns Hopkins University Applied Physics
Laboratory, Laurel, MD, 20723, USA
SOURCE: Analytica Chimica Acta (2007), 581(2), 202-207
CODEN: ACACAM; ISSN: 0003-2670
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Molecularly imprinted polymers capable of sensing organophosphorous
compds. by luminescence were prepared by reversible addition fragmentation
chain transfer (RAFT) polymerization. The polymer contained a
dithiobenzoate substituted tris(β -diketonate) europium(III)
complex which served as a polymerization substrate and as a luminescent
binding site for pinacolyl methylphosphonate (PMP), the hydrolysis product
of the nerve agent Soman. The resultant polymer allowed quantitation of
PMP in the low ppb range with minimal interference from similar compds.
Polymers were characterized by luminescence spectroscopy and SEM.
OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD

(9 CITINGS)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:413077 CAPLUS
 DOCUMENT NUMBER: 145:95236
 TITLE: Two novel luminescent lanthanide sulfate-carboxylates with an unusual 2-D bamboo-raft-like structure based on the linkages of left- and right-handed helical tubes involving in situ decarboxylation
 AUTHOR(S): Sun, Yan-Qiong; Zhang, Jie; Yang, Guo-Yu
 CORPORATE SOURCE: State Key Laboratory of Structural Chemistry, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fujian, 350002, Peop. Rep. China
 SOURCE: Chemical Communications (Cambridge, United Kingdom) (2006), (18), 1947-1949
 CODEN: CHCOFS; ISSN: 1359-7345
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 145:95236
 AB Two novel 2-dimensional bamboo-raft-like lanthanide luminescent materials $[\text{Ln}(\text{Himc})(\text{SO}_4)(\text{H}_2\text{O})]$ ($\text{Ln} = \text{Dy, Eu}$; $\text{H2imc} = 4\text{-imidazolecarboxylic acid}$), constructed from alternate left- and right-handed helical tubes, were synthesized and characterized. H2imc came from the in situ decarboxylation of the 4,5-imidazoledicarboxylic acid (H3imdc) in the hydrothermal reactions.
 OS.CITING REF COUNT: 31 THERE ARE 31 CAPLUS RECORDS THAT CITE THIS RECORD (31 CITINGS)
 REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:1168877 CAPLUS
 DOCUMENT NUMBER: 143:451780
 TITLE: Processable molecularly imprinted polymers
 INVENTOR(S): Southard, Glen E.; Murray, George M.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005103655	A1	20051103	WO 2004-US32575	20041004
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				

S/N 10/599,062

SN, TD, TG				
AU 2004318862	A1	20051103	AU 2004-318862	20041004
CA 2560384	A1	20051103	CA 2004-2560384	20041004
EP 1733211	A1	20061220	EP 2004-821372	20041004
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1969181	A	20070523	CN 2004-80042696	20041004
JP 2007532715	T	20071115	JP 2007-507297	20041004
US 20070197746	A1	20070823	US 2006-599062	20060919
PRIORITY APPLN. INFO.:				
			US 2004-560668P	P 20040408
			WO 2004-US32575	W 20041004

OTHER SOURCE(S): MARPAT 143:451780

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex with the following formula L3M wherein L is a β -diketone ligand containing a chain transfer moiety and L3M can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and crosslinking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	186.56	186.78
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-18.04	-18.04

FILE 'STNGUIDE' ENTERED AT 12:38:38 ON 09 SEP 2009

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 4, 2009 (20090904/UP).

=> file uspatall caplus japio

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.28	187.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-18.04

FILE 'USPATFULL' ENTERED AT 12:41:19 ON 09 SEP 2009

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FILE 'USPATOLD' ENTERED AT 12:41:19 ON 09 SEP 2009

CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

S/N 10/599,062

FILE 'USPAT2' ENTERED AT 12:41:19 ON 09 SEP 2009
CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CAPLUS' ENTERED AT 12:41:19 ON 09 SEP 2009
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FILE 'JAPIO' ENTERED AT 12:41:19 ON 09 SEP 2009
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=> d his

(FILE 'HOME' ENTERED AT 12:17:28 ON 09 SEP 2009)
SET ABBR ON PERM
SET PLURALS ON PERM

FILE 'USPATFULL, USPATOLD, USPAT2, CAPLUS, JAPIO' ENTERED AT 12:18:07 ON
09 SEP 2009
E MURRAY PETER/AU
E MURRAY GEORGE/AU
L1 8 S E3
E MURRAY GEORGE/IN
L2 58 S E12
L3 7 S L2 AND CHAIN(1A) TRANSFER
L4 4627 S (MOLECULAR?(1A)IMPRINT?)(3A)(POLYMER# OR COPOLYMER#)
L5 6086 S (CHAIN(1A) TRANSFER)(8A)(LIGAND# OR MOIET? OR GROUP# OR FUNCTI
L6 9 S L4 AND L5
L7 9 S RAFT(2S)((COMPLEX### OR CHELAT####)(6A)(LANTHAN? OR EUROPIUM

FILE 'STNGUIDE' ENTERED AT 12:38:38 ON 09 SEP 2009

FILE 'USPATFULL, USPATOLD, USPAT2, CAPLUS, JAPIO' ENTERED AT 12:41:19 ON
09 SEP 2009

=> s analyte# and lanthan?(6a)(complex### or chelat####)
L8 1131 ANALYTE# AND LANTHAN?(6A)(COMPLEX### OR CHELAT####)

=> s 15 and 18
L9 6 L5 AND L8

=> d 19 1-6 ibib abs

L9 ANSWER 1 OF 6 USPATFULL on STN
ACCESSION NUMBER: 2008:355750 USPATFULL
TITLE: Peptosomes for Use in Acoustically Mediated
Intracellular Drug Delivery in vivo
INVENTOR(S): Hardy, Charles Thomas, Foster City, CA, UNITED STATES
PATENT ASSIGNEE(S): Biovaluation & Analysis, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080312581	A1	20081218
APPLICATION INFO.:	US 2008-131105	A1	20080601 (12)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2007-943603P	20070613 (60)
	US 2007-943589P	20070613 (60)
	US 2007-943584P	20070613 (60)

US 2007-943574P	20070613 (60)
US 2007-942453P	20070606 (60)
US 2007-942451P	20070606 (60)
US 2007-942447P	20070606 (60)
US 2007-942443P	20070606 (60)
US 2007-942438P	20070606 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Biovaluation & Analysis, Inc., 509 Jibstay Lane, Foster City, CA, 94404, US
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Page(s)
LINE COUNT: 5364

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Targeted therapeutic delivery systems comprising specially designed nanocarriers for intracellular therapeutic delivery, mediated by acoustic energy, for use either in vivo or in vitro, are described. Nanocarriers comprised of substantially peptosomes, and mixtures thereof, are used to treat a variety of diseases in humans and other species, such as cancer, ophthalmological, pulmonary, urinary or other pathologies. Methods for preparing the targeted therapeutic delivery systems are also embodied, which comprise processing a solution comprised of biopolymers or other species and components, with or without targeting moieties, adding said biopolymers and other compounds to a solution containing one or more therapeutic agents, stabilizing or not stabilizing said nanocarriers, adding one or more contrast agents, and resulting in a targeted therapeutic delivery system. Preferred therapeutics for use with the present invention include nucleic acids, proteins, peptides, and other therapeutic macromolecules.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 6 USPATFULL on STN
ACCESSION NUMBER: 2008:302393 USPATFULL
TITLE: Molecularly Imprinted Polymer Ion Exchange Resins
INVENTOR(S): Murray, George M., Columbia, MD, UNITED STATES
Van Houten, Kelly A., West Friendship, MD, UNITED STATES
Southard, Glen E., Park City, UT, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080264868	A1	20081030
APPLICATION INFO.:	US 2006-89027	A1	20060811 (12)
	WO 2006-US31346		20060811
			20080402 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2005-736376P	20051114 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	1000	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A molecularly imprinted polymer ion exchange resin for selectively removing one or more inorganic ions in a liquid medium is disclosed and described. The exchange resin can include a bead having a porous structure and comprising a cross-linked molecularly imprinted polymer having molecular sized cavities adapted to selectively receive and bind a specific inorganic ion in a liquid medium. A process for preparing a molecularly imprinted polymer ion exchange resin can include (a) polymerizing a polymerizable mixture in the presence of an inorganic ion imprinting complex to form a bead, said inorganic ion imprinting complex including a ligand and an inorganic ion; and (b) removing the inorganic ions from the bead to form the molecularly imprinted polymer ion exchange resin, the bead having a porous structure and comprising a cross-linked molecularly imprinted polymer having molecular sized cavities adapted to selectively receive and bind a specific inorganic ion in a liquid medium.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2008:65026 USPATFULL

TITLE: Authentication Of Products Using Molecularly Imprinted Polymers

INVENTOR(S): Charles, Harry K., Laurel, MD, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20080056940	A1	20080306
APPLICATION INFO.:	US 2004-575055	A1	20041004 (10)
	WO 2004-US32576		20041004
			20070413 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-509284P	20031007 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: Francis A Cooch Deputy General Counsel (Patents), The Johns Hopkins University Applied Physics Labor, 11100 Johns Hopkins Road, Mail Stop 7-156, Laurel, MD, 20723-6099, US

NUMBER OF CLAIMS: 31

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 991

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for identifying a product includes providing a solid body (10) fabricated from at least a molecularly imprinted polymer having molecular sized cavities (12) adapted to selectively receive and bind molecules (50) having a specific taggant molecular structure (51), the molecular sized cavities (12) disposed on a portion of an exterior surface (11) of the body (10), and applying to the surface of the body a composition containing indicator molecules (50) having a taggant moiety (51) at one end and a marking function group (53) tethered to the taggant moiety (51) by a molecular chain the taggant moieties (51) engaging and binding to the molecular sized cavities (12) so as to mark the portion of the surface (11) of the body (10) with the indicator molecules (50) bound thereto, the marking functional groups (53) rendering the marked portion of the surface (11) perceptible with or

without detection instrumentation.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2007:225646 USPATFULL
TITLE: Processable molecularly imprinted polymers
INVENTOR(S): Southard, Glen E., Park City, UT, UNITED STATES
Murray, George M., Columbia, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070197746	A1	20070823
APPLICATION INFO.:	US 2004-599062	A1	20041004 (10)
	WO 2004-US32575		20041004
			20060919 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-560668P	20040408 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	THE JOHNS HOPKINS UNIVERSITYAPPLIED PHYSICS LABORA, OFFICE OF PATENT COUNSEL, 11100 JOHNS HOPKINS ROAD, MAIL STOP 7-156, LAUREL, MD, 20723-6099, US	

NUMBER OF CLAIMS: 45

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 2 Drawing Page(s)

LINE COUNT: 1353

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex having the formula L?3#191M wherein L is a β -diketone ligand containing a chain transfer moiety and L?3#191 can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and cross-linking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:198501 CAPLUS
DOCUMENT NUMBER: 144:233609
TITLE: Authenticatable products using molecularly imprinted polymers
INVENTOR(S): Charles, Harry K., Jr.; Murray, George M.
PATENT ASSIGNEE(S): The Johns Hopkins University, USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005038734	A2	20050428	WO 2004-US32576	20041004
WO 2005038734	A3	20051208		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20080056940	A1	20080306	US 2007-575055	20070413
PRIORITY APPLN. INFO.:			US 2003-509284P	P 20031007
			WO 2004-US32576	W 20041004

AB Authenticatable products are manufactured by (a) complexing a lanthanide complex of a β -ketone containing a chain-transfer moiety with a target analyte and (b) polymerizing the adduct with a monomer and a crosslinking agent. A typical product was manufactured by complexing 1-[4-(4,4,4-trifluoro-1,3-dioxo-1-butyl)-1-naphthyl]ethyl dithiobenzoate with EuCl₃.6H₂O, radically polymerizing 1-but-3-enyl-4-vinylbenzene in the presence of the resulting complex and di-Me hydrogen phosphate (analyte), polymerizing styrene in the presence of the 2nd complex, and crosslinking.

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:1168877 CAPLUS
 DOCUMENT NUMBER: 143:451780
 TITLE: Processable molecularly imprinted polymers
 INVENTOR(S): Southard, Glen E.; Murray, George M.
 PATENT ASSIGNEE(S): The Johns Hopkins University, USA
 SOURCE: PCT Int. Appl., 41 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2005103655	A1	20051103	WO 2004-US32575	20041004
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004318862	A1	20051103	AU 2004-318862	20041004

CA 2560384	A1	20051103	CA 2004-2560384	20041004
EP 1733211	A1	20061220	EP 2004-821372	20041004
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1969181	A	20070523	CN 2004-80042696	20041004
JP 2007532715	T	20071115	JP 2007-507297	20041004
US 20070197746	A1	20070823	US 2006-599062	20060919
PRIORITY APPLN. INFO.:			US 2004-560668P	P 20040408
			WO 2004-US32575	W 20041004

OTHER SOURCE(S): MARPAT 143:451780

AB A process is provided herein for preparing molecularly imprinted polymers for detecting a target analyte by Reversible Addition Fragmentation Chain Transfer (RAFT). The process includes providing a complex with the following formula L3M wherein L is a β -diketone ligand containing a chain transfer moiety and L3M can be the same or different ligands, and M is a lanthanide element; reacting the complex with the target analyte to provide an adduct containing the target analyte; co-polymerizing the adduct with a monomer and crosslinking agent to provide a polymer; and, removing the target analyte from the polymer to provide the molecularly imprinted polymer.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE 'USPATFULL, USPATOLD, USPAT2, CAPLUS, JAPIO' ENTERED AT 12:18:07 ON 09 SEP 2009

E MURRAY PETER/AU
E MURRAY GEORGE/AU
L1 8 SEA ABB=ON PLU=ON "MURRAY GEORGE"/AU
D L1 1-8 IBIB ABS
E MURRAY GEORGE/IN
L2 58 SEA ABB=ON PLU=ON "MURRAY GEORGE M"/IN
L3 7 SEA ABB=ON PLU=ON L2 AND CHAIN(1A) TRANSFER
D L3 1-7 IBIB ABS
L4 4627 SEA ABB=ON PLU=ON (MOLECULAR?(1A) IMPRINT?)(3A)(POLYMER# OR COPOLYMER#)
L5 6086 SEA ABB=ON PLU=ON (CHAIN(1A) TRANSFER)(8A)(LIGAND# OR MOIET? OR GROUP# OR FUNCTION?)
L6 9 SEA ABB=ON PLU=ON L4 AND L5
D L6 1-9 IBIB ABS
L7 9 SEA ABB=ON PLU=ON RAFT(2S)((COMPLEX### OR CHELAT####)(6A)(LANTHAN? OR EUROPIUM OR CERIUM OR NEODYMIUM OR YTTERBIUM OR LUTETIUM))
D L7 1-9 IBIB ABS

FILE 'STNGUIDE' ENTERED AT 12:38:38 ON 09 SEP 2009

FILE 'USPATFULL, USPATOLD, USPAT2, CAPLUS, JAPIO' ENTERED AT 12:41:19 ON 09 SEP 2009
L8 1131 SEA ABB=ON PLU=ON ANALYTE# AND LANTHAN?(6A)(COMPLEX### OR CHELAT####)

S/N 10/599,062

L9 6 SEA ABB=ON PLU=ON L5 AND L8
D L9 1-6 IBIB ABS

FILE HOME

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 8 Sep 2009 (20090908/PD)

FILE LAST UPDATED: 8 Sep 2009 (20090908/ED)

HIGHEST GRANTED PATENT NUMBER: US7587767

HIGHEST APPLICATION PUBLICATION NUMBER: US20090222963

CA INDEXING IS CURRENT THROUGH 8 Sep 2009 (20090908/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Sep 2009 (20090908/PD)

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FILE USPAT2

FILE COVERS 2001 TO PUBLICATION DATE: 8 Sep 2009 (20090908/PD)

FILE LAST UPDATED: 8 Sep 2009 (20090908/ED)

HIGHEST GRANTED PATENT NUMBER: US20090114533

HIGHEST APPLICATION PUBLICATION NUMBER: US20090222270

CA INDEXING IS CURRENT THROUGH 8 Sep 2009 (20090908/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 8 Sep 2009 (20090908/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

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FILE COVERS 1907 - 9 Sep 2009 VOL 151 ISS 11
FILE LAST UPDATED: 8 Sep 2009 (20090908/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
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MOST RECENT PUBLICATION DATE: 28 MAY 2009 <20090528/PD>
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>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION (SLART) IS AVAILABLE
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FILE STNGUIDE

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